Author index

Aasum, E. *see* Bratkovsky, S.V.
Andersson, K.B., Florholmen, G., Winer, L.H., Tønnessen, T. & Christensen, G. Regulation of neuronal type genes in congestive heart failure rats, 17
Ardigò, L.P. *see* Mian, O.S.
Aukland, K. *see* Baran, D.

Baan, G.C. *see* Meijer, H.J.M.
Bäcker, A. *see* Girchev, R.
Baelder, R. *see* Glaab, T.
Baran, D., Tenstad, O. & Aukland, K. Localization of tubular uptake segment of filtered Cystatin C and Aprotinin in the rat kidney, 209
Barber, A. *see* Iñigo, C.
Bendheim, M.O. *see* Fykse, V.
Bianchi, R. *see* Binazzi, B.
Binazzi, B., Lanini, B., Bianchi, R., Romagnoli, I., Nerini, M., Gigliotti, F., Duranti, R., Milic-Emili, J. & Scano, G. Breathing pattern and kinematics in normal subjects during speech, singing and loud whispering, 233
Borda, E. *see* Finkelberg, A.
Bratkovsky, S.V., Aasum, E., Riemersma, R.A., Myhre, E.S.P. & Larsen, T.S. Reduced coronary reserve in response to short-term ischaemia and vasoactive drugs in *ex vivo* hearts from diabetic mice, 171
Braun, A. *see* Glaab, T.
Bruce, C.R. *see* Dyck, D.J.
Bruton, J., Pinniger, G.J., Lännergren, J. & Westerblad, H. The effects of the myosin-II inhibitor *N*-benzyl-*p*-toluene sulphonamide on fatigue in mouse single intact toe muscle fibres, 59
Busch, L. *see* Finkelberg, A.
Byrne, D., Di Benedetta, C. & Harris, J. Teaching Workshop: joint meeting of the Physiological Society and the Federation of European Physiological Societies, 20–23 July 2005, 77

Chen, D. *see* Fykse, V.
Chen, L. *see* Xie, D.
Christensen, G. *see* Andersson, K.B.

Denton, K.M. *see* Eppel, G.A.
Di Benedetta, C. *see* Byrne, D.
Duranti, R. *see* Binazzi, B.
Dyck, D.J., Heigenhauser, G.J.F. & Bruce, C.R. The role of adipokines as regulators of skeletal muscle fatty acid metabolism and insulin sensitivity, 5

Eppel, G.A., Ventura, S., Denton, K.M. & Evans, R.G. Lack of contribution of P2X receptors to neurally mediated vasoconstriction in the rabbit kidney *in vivo*, 197
Evans, R.G. *see* Eppel, G.A.

Ferreira, L.F., Padilla, D.J., Williams, J., Hageman, K.S., Musch, T.I. & Poole, D.C. Effects of altered nitric oxide availability on rat muscle microvascular oxygenation during contractions, 223
Finkelberg, A., Busch, L., Reina, S., Sterin-Borda, L. & Borda, E. Endogenous signalling system involved in parotid gland adenosine A_1 receptor-amylase release, 29
Florholmen, G. *see* Andersson, K.B.
Földi, M. & Knut Aukland, EM. Convincing evidence for the pumping activity of lymphatics, 319
Fujikawa, T. *see* Yamaguchi, A.

Fykse, V., Solligård, E., Bendheim, M.O., Chen, D., Gronbech, J.E., Sandvik, A.K. & Waldum, H.L. ECL cell histamine mobilization and parietal cell stimulation in the rat stomach studied by microdialysis and electron microscopy, 37

Gigliotti, F. *see* Binazzi, B.
Girchev, R., Bäcker, A., Markova, P. & Kramer, H.J. Renal endothelin system and excretory function in Wistar–Kyoto and Long–Evans rats, 67
Glaab, T., Hecker, H., Stephan, M., Baelder, R., Braun, A., Korolewitz, R., Krug, N. & Hoymann, H.G. Comparison of non-invasive measures of cholinergic and allergic airway responsiveness in rats, 301
Gronbech, J.E. *see* Fykse, V.

Hageman, K.S. *see* Ferreira, L.F.
Harris, J. *see* Byrne, D.
Hayashi, K., Miyachi, M., Seno, N., Takahashi, K., Yamazaki, K., Sugawara, J., Yokoi, T., Onodera, S. & Mesaki, N. Fluctuations in carotid arterial distensibility during the menstrual cycle do not influence cardiovagal baroreflex sensitivity, 103
Hecker, H. *see* Glaab, T.
Heigenhauser, G.J.F. *see* Dyck, D.J.
Henriksson, J. Editorial, 1
Henriksson, J. Editor's choice, 247
Hirai, T. *see* Yamaguchi, A.
Hirayama, A. *see* Tanabe, K.
Hofmann, F. *see* Lacinová, L.
Holtermann, A. & Roeleveld, K. EMG amplitude distribution changes over the upper trapezius muscle are similar in sustained and ramp contractions, 159
Hopman, M.T.E. *see* Poelkens, F.
Hoymann, H.G. *see* Glaab, T.
Huijing, P.A. *see* Meijer, H.J.M.

Ikeda, Y. *see* Yamaguchi, A.
Iñigo, C., Barber, A. & Lostao, M.P. Na^+ and pH dependence of proline and β-alanine absorption in rat small intestine, 271

Jensen, F.B. & Moore, C. Editor's choice, 169

Kalliokoski, K.K. *see* Laaksonen, M.S.
Kangawa, K. *see* Schwenke, D.O.
Kersten, B. *see* Poelkens, F.
Kivelä, R. *see* Laaksonen, M.S.
Klugbauer, N. *see* Lacinová, L.
Knut Aukland, EM. *see* Földi, M.
Knuuti, J. *see* Laaksonen, M.S.
Komi, P.V. *see* Laaksonen, M.S.
Kono, I. *see* Tanabe, K.
Korolewitz, R. *see* Glaab, T.
Kramer, H.J. *see* Girchev, R.
Krug, N. *see* Glaab, T.
Kuno, S. *see* Tanabe, K.
Kurejová, M. *see* Lacinová, L.
Kyröläinen, H. *see* Laaksonen, M.S.

Laaksonen, M.S., Kivelä, R., Kyröläinen, H., Sipilä, S., Selänne, H., Lautamäki, R., Nuutila, P., Knuuti, J., Kalliokoski, K.K. & Komi, P.V. Effects of exhaustive stretch-shortening cycle exercise on muscle blood flow during exercise, 261

© 2006 Scandinavian Physiological Society

van Laarhoven, E.W. *see* Poelkens, F.
Lacinová, L., Kurejová, M., Klugbauer, N. & Hofmann, F. Gating of the expressed T-type $Ca_v3.1$ calcium channels is modulated by Ca^{2+}, 249
Lanini, B. *see* Binazzi, B.
Lännergren, J. *see* Bruton, J.
Larsen, T.S. *see* Bratkovsky, S.V.
Larsson, L. *see* Lionikas, A.
Lautamäki, R. *see* Laaksonen, M.S.
Li, M. *see* Lionikas, A.
Lionikas, A., Li, M. & Larsson, L. Human skeletal muscle myosin function at physiological and non-physiological temperatures, 151
Liu, C. *see* Xie, D.
Liu, K. *see* Xie, D.
Lostao, M.P. *see* Iñigo, C.
Lundgren, O. & Söderholm, J.D. Editor's choice, 3

Markos, F. & Snow, H.M. An investigation into the physiological relevance of the vagal tachycardia in the anaesthetized dog, 179
Markova, P. *see* Girchev, R.
Masuda, K. *see* Tanabe, K.
Meijer, H.J.M., Baan, G.C. & Huijing, P.A. Myofascial force transmission is increasingly important at lower forces: firing frequency-related length–force characteristics of rat extensor digitorum longus, 185
Mesaki, N. *see* Hayashi, K.
Mian, O.S., Thom, J.M., Ardigò, L.P., Narici, M.V. & Minetti, A.E. Metabolic cost, mechanical work, and efficiency during walking in young and older men, 127
Milic-Emili, J. *see* Binazzi, B.
Minetti, A.E. *see* Mian, O.S.
Miyachi, M. *see* Hayashi, K.
Moore, C. *see* Jensen, F.B.
Morita, I. *see* Yamaguchi, A.
Musch, T.I. *see* Ferreira, L.F.
Myhre, E.S.P. *see* Bratkovsky, S.V.

Nagase, S. *see* Tanabe, K.
Narici, M.V. *see* Mian, O.S.
Nerini, M. *see* Binazzi, B.
Nuutila, P. *see* Laaksonen, M.S.
Nylander, O. & Pihl, L. Luminal hypotonicity increases duodenal mucosal permeability by a mechanism involving 5-hydroxytryptamine, 45
Nylander, O. *see* Pihl, L.

Onodera, S. *see* Hayashi, K.

Padilla, D.J. *see* Ferreira, L.F.
Pearson, J.T. *see* Schwenke, D.O.
Pihl, L. & Nylander, O. Products of cyclooxygenase-2 depress duodenal function in rats subjected to abdominal surgery, 279
Pihl, L. *see* Nylander, O.
Pinniger, G.J. *see* Bruton, J.
Pocock, T. Reply, 79
Poelkens, F., Thijssen, D.H.J., Kersten, B., Scheurwater, H., van Laarhoven, E.W. & Hopman, M.T.E. Counteracting venous stasis during acute lower leg immobilization, 111
Poole, D.C. *see* Ferreira, L.F.

Rattarasarn, C. Physiological and pathophysiological regulation of regional adipose tissue in the development of insulin resistance and type 2 diabetes, 87
Reina, S. *see* Finkelberg, A.
Riemersma, R.A. *see* Bratkovsky, S.V.
Roeleveld, K. *see* Holtermann, A.
Romagnoli, I. *see* Binazzi, B.

Sakuma, K. *see* Yamaguchi, A.
Sandvik, A.K. *see* Fykse, V.
Scano, G. *see* Binazzi, B.
Scheurwater, H. *see* Poelkens, F.
Schwenke, D.O., Pearson, J.T., Kangawa, K. & Shirai, M. Does central nitric oxide chronically modulate the acute hypoxic ventilatory response in conscious rats?, 309
Selänne, H. *see* Laaksonen, M.S.
Seno, N. *see* Hayashi, K.
Shirai, M. *see* Schwenke, D.O.
Sipilä, S. *see* Laaksonen, M.S.
Snow, H.M. *see* Markos, F.
Söderholm, J.D. *see* Lundgren, O.
Solligård, E. *see* Fykse, V.
Soya, H. *see* Yamaguchi, A.
Stephan, M. *see* Glaab, T.
Sterin-Borda, L. *see* Finkelberg, A.
Sugawara, J. *see* Hayashi, K.
Sugiura, T. *see* Yamaguchi, A.

Takahashi, K. *see* Hayashi, K.
Tanabe, K., Masuda, K., Hirayama, A., Nagase, S., Kono, I. & Kuno, S. Effect of spontaneous exercise on antioxidant capacity in rat muscles determined by electron spin resonance, 119
Tateoka, M. *see* Yamaguchi, A.
Tenstad, O. *see* Baran, D.
Thijssen, D.H.J. *see* Poelkens, F.
Thom, J.M. *see* Mian, O.S.
Tønnessen, T. *see* Andersson, K.B.

Ventura, S. *see* Eppel, G.A.

Waldum, H.L. *see* Fykse, V.
Westerblad, H. *see* Bruton, J.
Williams, J. *see* Ferreira, L.F.
Winer, L.H. *see* Andersson, K.B.

Xie, D., Chen, L., Liu, C. & Liu, K. The inhibitory effects of oxytocin on distal colonic contractile activity in rabbits are enhanced by ovarian steroids, 141

Yamaguchi, A., Fujikawa, T., Tateoka, M., Soya, H., Sakuma, K., Sugiura, T., Morita, I., Ikeda, Y. & Hirai, T. The expression of IGF-I and myostatin mRNAs in skeletal muscle of hypophysectomized and underfed rats during postnatal growth, 291
Yamazaki, K. *see* Hayashi, K.
Yokoi, T. *see* Hayashi, K.

© 2006 Scandinavian Physiological Society

Subject index

A_1 receptor, 29
α,β-methylene ATP, 197
activation pattern, 159
adenosine triphosphate (ATP), 197
adiponectin, 5, 87
ageing, 127
airway responsiveness, 301
amylase release, 29
animal model, 301
anterior crural compartment, 185
array analysis, 17
atropine, 179
autonomic nervous system, 103

bicarbonate secretion, 279
blood-myocyte oxygen exchange, 223
BQ-123, 67
BQ-788, 67
breathing pattern, 233
brush border membrane vesicles, 271
BTS, 59

calcium, 59
calcium dependent inactivation, 249
carotid artery, 103
$Ca_v3.1$ calcium channel, 249
central nervous system, 309
chronic hypoxia, 309
co-activation, 127
colonic motility, 141
connective tissue, 185
coronary flow, 171
cyclopentyl-1,3-dipropylxanthine, 29

deep venous thrombosis, 111
diabetic mouse hearts, 171

elasticity, 103
elderly, 127
electron spin resonance, 119
energy cost, 127
enteric nervous system, 45
enterochromaffin-like cell, 37
everted intestinal rings, 271
exercise hyperaemia, 223
extensor digitorum longus muscle, 185

fatigue, 159
firing frequency, 185
fluid transport, 45
fracture, 111
free fatty acid, 87

gait, 127
glomerular filtration rate, 209

heart failure, 17
hepatic fat, 87
histamine, 37
hydroxyl radical, 119
hypophysectomy, 291
hypoxic ventilatory response, 309

Imino system, 271
in vitro motility assay, 151
indomethacin, 45
infarction, 17
inflammation, 261
inhomogeneous activation, 159
insulin resistance, 5, 87
insulin-like growth factor-I, 291
intramyocellular fat, 87
isolated rat stomach, 37

length force characteristics, 185
leptin, 5, 87
lipids, 5
L-nitro arginine methyl ester, 223
locomotion, 127
Long–Evans rat, 67
lung volumes, 233

mammalian muscle, 59
microdialysis, 37
mitochondrial dysfunction, 87
motility, 45, 279
mucosal permeability, 279
multi-channel surface electromyographical, 159
muscle fatigue, 59
muscle pump activity, 111
myofascial force transmission, 185
myosin heavy chain isoforms, 291
myosin isoforms, 151
myostatin, 291

N-benzyl-*p*-toluene sulphonamide, 59
neuronal genes, 17
nitric oxide, 309
nitric oxide synthase, 29

oestradiol, 141
oestrogen, 103
optoelectronic plethysmography, 233
oxygen delivery, 223
oxytocin, 141
oxytocin receptor, 141

paracrine, 37
parietal cell, 37
parotid gland, 29
perfusion, 261
phonatory tasks, 233
phospholipase C, 29
polypeptides, 209
positron emission tomography, 261
postnatal growth, 291
post-operative ileus, 45, 279
progesterone, 103, 141

© 2006 Scandinavian Physiological Society

protein kinase C, 29
Proton Amino Acid Transporter 1, 271
purinoceptors, 197

rat, 45, 301
reactive hyperaemia, 171
renal circulation, 197
renal endothelin, 67
renal excretory function, 67
renal medulla, 197
renal tubular topography, 209
resistin, 5
respiratory function test, 301

skeletal muscle, 59, 151, 261
sodium nitroprusside, 223
spinotrapezius muscle, 223
spin-trap, 119
spontaneous exercise, 119
strain gauge plethysmography, 111
stretch-shortening cycle, 261
superoxide anion, 119
sympathetic nervous system, 197

tachycardia, 179
tibialis anterior muscle, 185
tidal expiratory flow, 301
trapezius, 159
tumour necrosis factor, 5

underfeeding, 291

vagus, 179
vasoactive drugs, 171
venous ejection fraction, 111
venous ejection volume, 111
visceral fat, 87
voltage dependent inactivation, 249

Wistar–Kyoto rat, 67

© 2006 Scandinavian Physiological Society